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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,188	12/11/2003	Nobuhisa Aoki	FUSA 20.807	8047
26304	7590	03/23/2006		
KATTEN MUCHIN ROSENMAN LLP 575 MADISON AVENUE NEW YORK, NY 10022-2585			EXAMINER SMITH, SHEILA B	
			ART UNIT	PAPER NUMBER

2617

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/733,188

Applicant(s)

AOKI ET AL.

Examiner

Sheila B. Smith

Art Unit

2681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Moriya et al. (U. S. Patent Number 5,832,363).

Regarding claim 1, Moriya et al. discloses essentially all the claimed invention as set forth in the instant application, further Moriya et al. discloses a mobile communication system including service management of traffic machines. In addition Moriya et al. discloses a method of registering position in a mobile radio communication system in which a position registration area number (A-F) is reported from a base station to a mobile station within a radio zone (1111), position information indicating a position registration area in which a mobile station resides is registered in storage means (which reads on data base) based upon position registration information that has been transmitted from the mobile station, and when there is an incoming call to a mobile station. a paging call is placed from a plurality of base stations within the position registration area in which said base station resides, (which reads on column 21 lines 40-60) based upon position information that has been read out of said memory means. comprising steps of: registering a rule for predicting the manner in which a mobile station changes a position registration area by moving; checking, on a per-mobile-station basis, whether a state in which

Art Unit: 2681

said rule is applicable has been attained (which reads on column 3 lines 21-65); and updating the position registration area of said mobile station based upon said rule if the state in which the rule is applicable has been attained (which reads on column 6 lines 15-26).

Regarding claim 2, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses a said rule mobile station changes a position registration area (which reads on column 20 lines 22-50).

Regarding claim 3, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses a rule is reported from a base station to a mobile station upon being incorporated in notification information transmitted from a network side, and said mobile station halts transmission of position registration information if the state in which said rule is applicable is attained (which reads on column 20 lines 22-50).

Regarding claim 4, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses a position registration area that has been assumed based upon said rule and a position registration area of which notification has been given from the network side agree a predetermined number of times, said mobile station judges that a state in which said rule is applicable has been attained and halts transmission of position registration information (which reads on column 3 lines 21-65).

Regarding claim 5, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses if a position registration area that has been assumed based upon said rule differs from a position registration area of which notification has been given from the network side, said mobile station notifies the network side of position registration information (which reads on column 3 lines 21-65).

Regarding claim 6, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses correcting the timing in said rule based upon a plurality of the notifications transmitted from a mobile station at such time that a position registration area assumed based upon said rule differs from a position registration area reported from the network side (which reads on column 3 lines 21-65).

Regarding claim 7, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses a plurality of position registration area series composed of different combinations of radio zones under control exist, notifying a mobile station of information for deciding on the basis of which rule of a position registration area series a position registration area is to be assumed; and assuming a position registration area in accordance with the rule of a prescribed position registration area series based upon said information (which reads on column 3 lines 21-65).

Regarding claim 8, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses a rule for updating said position registration area is decided taking into consideration one or more items selected from among placement of man-made structures, natural geographical features, present location of a mobile station. history of movement, traveling speed, time, season, date, day of the week, schedule information indicating the schedule of the owner of the mobile station and navigation information (which reads on column 20 lines 22-50).

Regarding claim 9, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses stipulating, by said rule, timing at which each point within a position registration area present along a route between any two points is passed;

Art Unit: 2681

acquiring a departure point and a destination from schedule information; modifying said rule so as to stipulate timing at which each point present along a route connecting the departure point and the destination is passed; and updating a position registration area of a mobile station based upon the rule modified (which reads on column 20 lines 22-50).

Regarding claim 10, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses stipulating, by said rule, timing at which each point within a position registration area present along a route connecting any two points is passed; acquiring, from a navigation system, a route from a present position to a destination; modifying said rule so as to stipulate timing at which each point present along said route obtained from the navigation system is passed; and updating a position registration area of a mobile station based upon the rule modified (which reads on column 20 lines 22-50).

Regarding claim 11, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses a mobile radio communication system in which a position registration area number (A-F) is reported from a base station to a mobile station within a radio zone (1111), position information indicating a position registration area in which a mobile station resides is based upon position registration information that has been transmitted from the mobile station. and when there is an incoming call to a mobile station, a paging call is placed from a plurality of base stations within the position registration area, in which said base station resides. based said position information, comprising: means for storing (which reads on data base) a rule for predicting the manner in which a mobile station changes a position registration area by moving; storage means for storing position information indicating a position registration area in which a mobile station resides (which reads on column 21 lines 40-60); and a

Art Unit: 2681

position registration controller for obtaining a position registration area of a mobile station based upon said rule if a state in which said rule is applicable has been attained on a per-mobile-station basis, and updating said position information (which reads on column 6 lines 15-26).

Regarding claim 12, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses rule stipulates timing at which a mobile station changes a position registration area (which reads on column 20 lines 22-50).

Regarding claim 13, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses a mobile station in a mobile radio communication system in which a position registration area number (A-F) is reported from a base station to a mobile station within a radio zone (1111), position information indicating a position registration area in which a mobile station resides is based upon position registration information that has been transmitted from the mobile station. and when there is an incoming call to a mobile station, a paging call is placed from a plurality of base stations within the position registration area, in which said base station resides (which reads on column 21 lines 40-60), based said position information, comprising: means for receiving and storing a rule, in accordance with which a position registration area is changed by movement, from a network side; and position registration control means for checking whether a state in which said rule is applicable has been attained and halting transmission of position registration information if the state in which the rule is applicable has been attained (which reads on column 6 lines 15-26).

Regarding claim 14, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses when a position registration area that has been assumed based upon said rule and a position registration area of which notification has been

Art Unit: 2681

given from the network side agree a predetermined number of times, said position registration control means judges that a state in which said rule is applicable has been attained and halts transmission of position registration information (which reads on column 20 lines 22-50).

Regarding claim 15, Moriya et al. discloses everything claimed as applied above (see claim 1) additionally, Moriya et al. discloses if a position registration area that has been assumed based upon said rule differs from a position registration area of which notification has been given from the network side . said position registration control means reports position registration information to the network side (which reads on column 20 lines 22-50).


Art Unit: 2681


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheila B. Smith whose telephone number is (571)272-7847. The examiner can normally be reached on Monday-Thursday 6:00 am - 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.Smith 
March 20, 2006


TEMICA BEAMER
PRIMARY EXAMINER
3/20/06